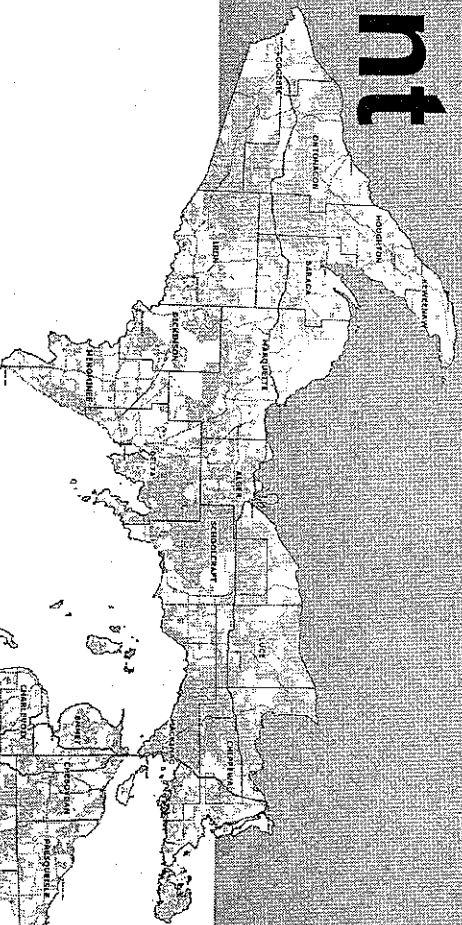
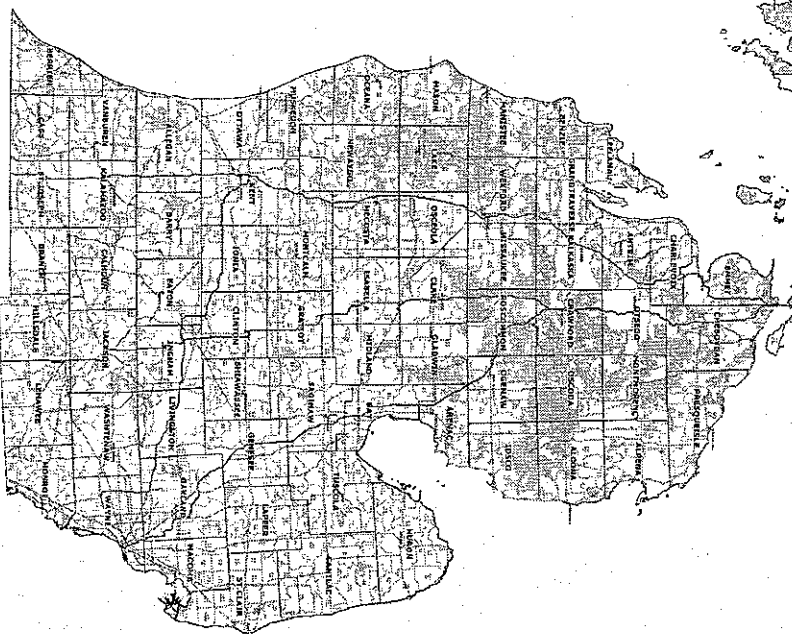


# ARRA Broadband Investment



## Michigan's Framework

May 2009



# ARRA Funding

US Dept. of Commerce – National Telecom & Info. Admin.

## ***\$4.7 Billion for Technology Opportunities***

- ◆ Expanding/improving coverage in unserved/underserved areas
- ◆ Providing education, awareness, access, equipment and support
- ◆ Improving access and use by public safety agencies
- ◆ Stimulating demand, economic growth and job creation
- ◆ Upgrading public computer center capacity
- ◆ Creating sustainable adoption programs
- ◆ Funding broadband mapping (MPSC)
- ◆ Assistant Sec. of Commerce may consult with state officials
- ◆ At this time, any entity appears to be eligible to apply
- ◆ Program guidelines have not been announced



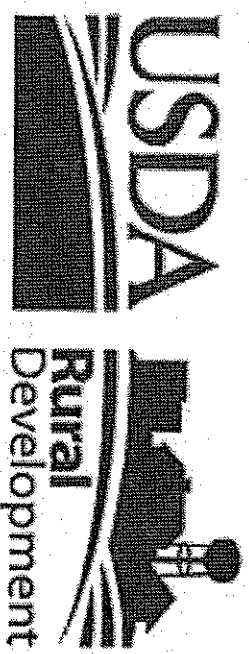
# ARRA Funding

US Department of Agriculture – Rural Utilities Service

## ***\$2.5 Billion for the Broadband,***

### ***Distance Learning and Telemedicine Program***

- ◆ Funding for existing loan, grant and loan/grant programs
- ◆ Anticipate majority of funds to be made available for grants
- ◆ Program usually disperses monies directly to providers



**\*Final grant criteria for these programs is expected in Summer 2009**

# ARRA Funding

*A Key Moment for Michigan*

*Michigan's ARRA broadband funding requests total over \$2 Billion for competing projects; pooling these will:*

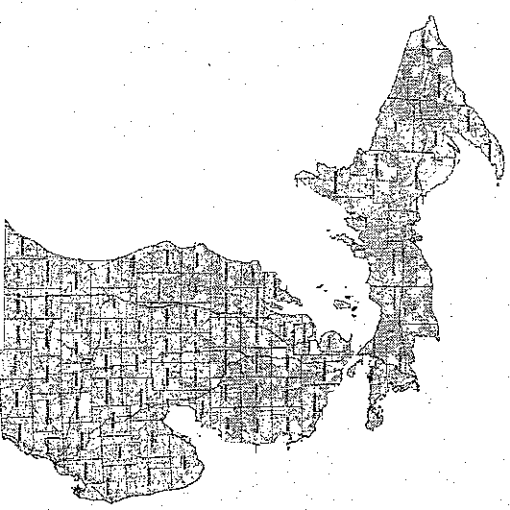
- ◆ Enable statewide investment with long-term benefits
- ◆ Bring broadband to every corner of the state



# Broadband in Michigan

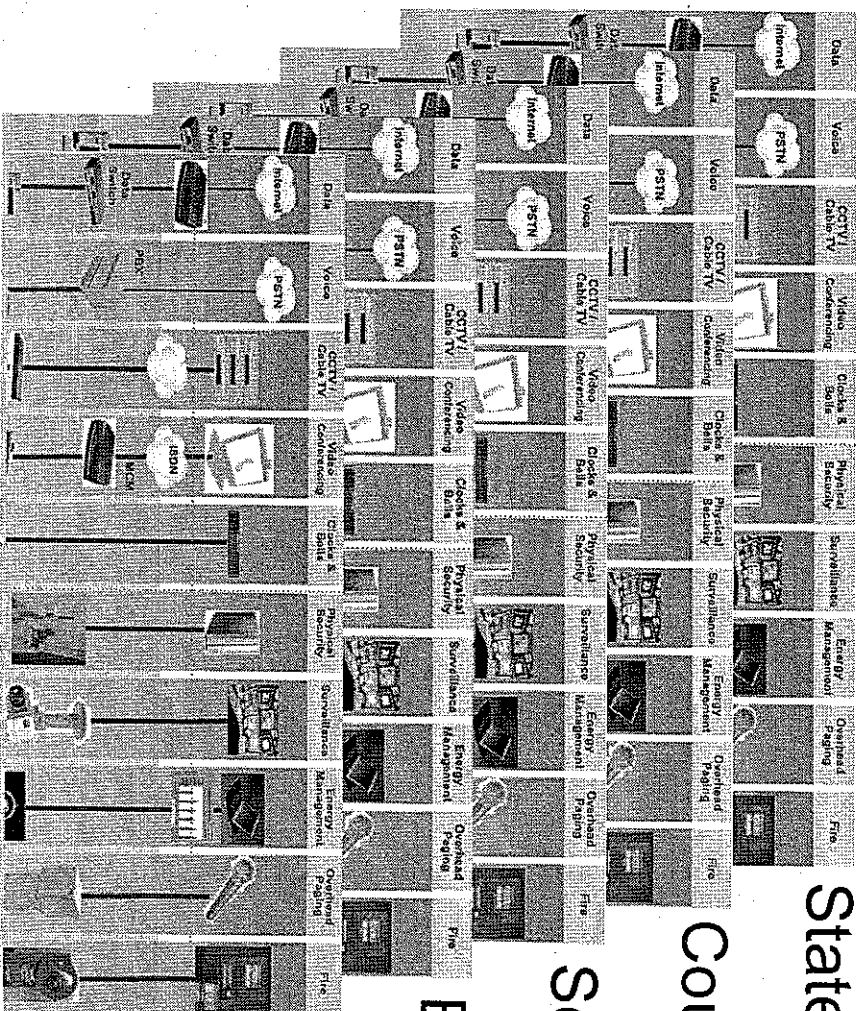
*ARRA funding provides our first real opportunity to bring broadband to every corner of the state...*

- ◆ *Leveraging investment through collaboration*
- ◆ *Sustainability through reduced recurring costs*
- ◆ *Leveraging the network as a platform*
- ◆ *Enabling higher productivity services*





# Traditional Deployment Models



State Government

County Government

School Districts

Emergency/Public Safety

Libraries

## Many Independent Networks

# The Power of Convergence

Data

Voice

Video Streaming

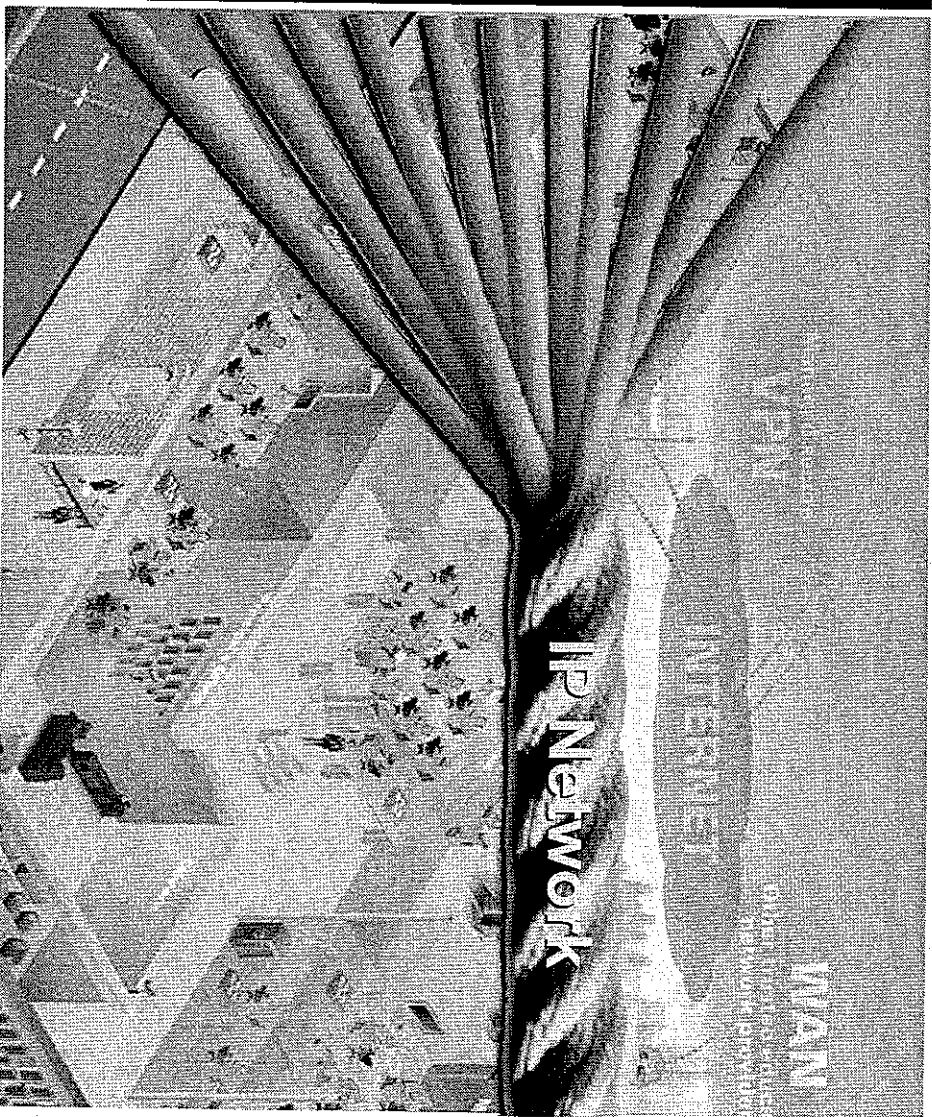
Video Conferencing

PA (Intercom)

Video Monitoring

Building Controls

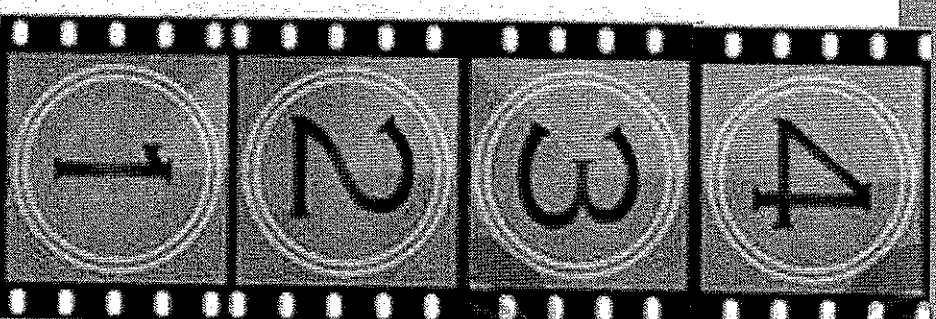
Clocks & Bells



# Michigan's Statewide Vision

## 4-3-2-1 Framework

- ◆ 4 Goals
- ◆ 3 Legs
- ◆ 2 Underlying Principles
- ◆ 1 Unified Network for Michigan

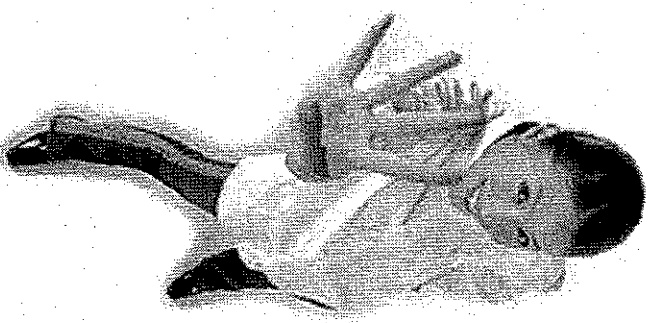




# Michigan's Statewide Framework

## 4 Goals

- ◆ **Goal 1:** Expand and upgrade broadband service to unserved/underserved populations across the State
- ◆ **Goal 2:** Transform Michigan's economic competitiveness by making affordable broadband accessible to any business throughout the state
- ◆ **Goal 3:** Ensure a better, more efficient government for the 21<sup>st</sup> century
- ◆ **Goal 4:** Strengthen Michigan's ability to monitor borders and critical infrastructure

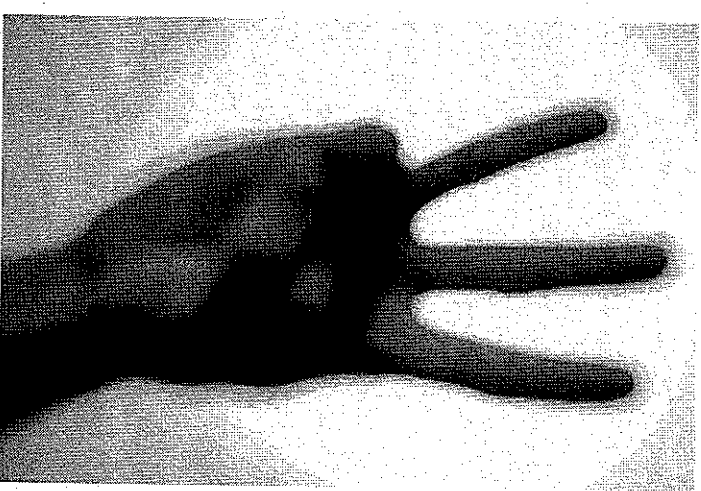


# Michigan's Statewide Framework

## 3 Legs

- ◆ **Leg 1: Superhighway & On-/Off-Ramps**  
Makes up the Central Core of the Shared Infrastructure for the State of Michigan
- ◆ **Leg 2: Local Networks**  
The foundation for regional cooperation and access to the statewide core
- ◆ **Leg 3: Un-served and Under-served**  
Assists in providing lower cost access to the individual citizen and business owner, in addition to public entities

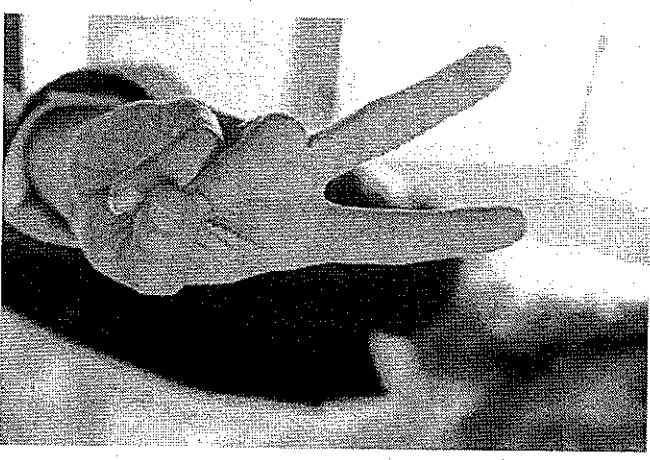
**\*It is the intent to look to the private sector to provide these legs**



# Michigan's Statewide Framework

## 2 Principles

- ◆ **Principle 1:** Reduce Ongoing Operating Expense (OPEX) while significantly increasing capacity, through Shared infrastructure and services
- ◆ **Principle 2:** Enable carriers/ISP's to increase reach, and enhance service for Michigan businesses and citizens



*This effort is NOT intended to disable or replace existing services, but enhance carriers/ISP's access to lower cost infrastructure in every corner of the state.*

# Michigan's Statewide Framework

## 1 Unified Broadband Vision for Michigan

### *A single unified broadband vision for Michigan will:*

- ◆ Lower costs, increase capacity for state/local government
- ◆ Lower costs, increase access for businesses and citizens
- ◆ Enable distance learning advancements through collaboration and research across the K-12 community
- ◆ Reduce healthcare costs by making electronic sharing of health information possible and enabling home healthcare
- ◆ Globalize our people and resources
- ◆ Strengthen critical infrastructure and public safety





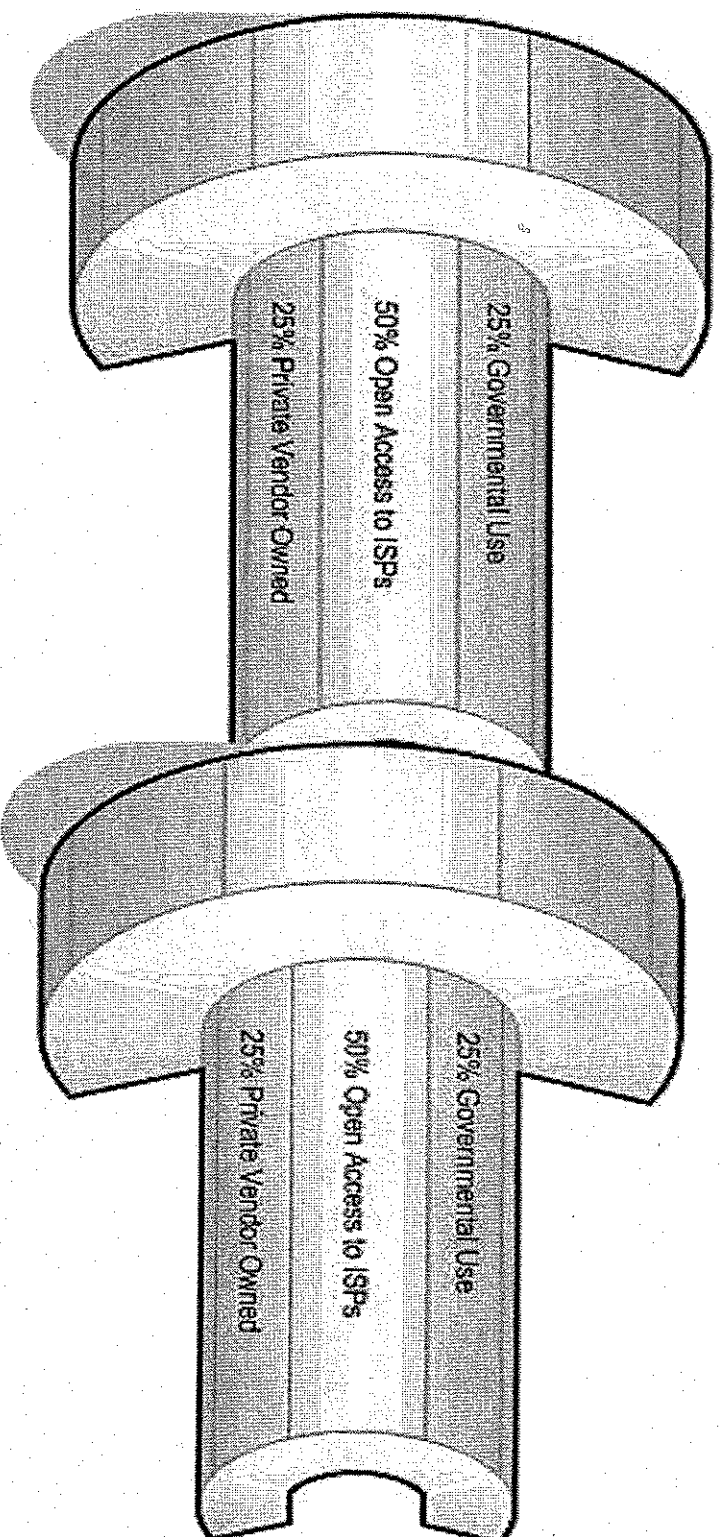
# Developing Michigan's Broadband Framework

## ***Statewide Broadband Planning Group developed the framework...***

- ◆ State Departments: Information Technology, Education, Transportation, History Arts & Libraries, Community Health, Energy Labor & Economic Growth and the Public Service Commission
- ◆ Others: KPMG, Michigan Public Health Institute, Executive on Loan (Cisco), Michigan State University and Convergent Technologies
- ◆ Consulted with many vendors and local governments
- ◆ Continuing discussions with vendors and local governments

# Michigan's Broadband Framework

## Leg 1: Statewide Superhighway

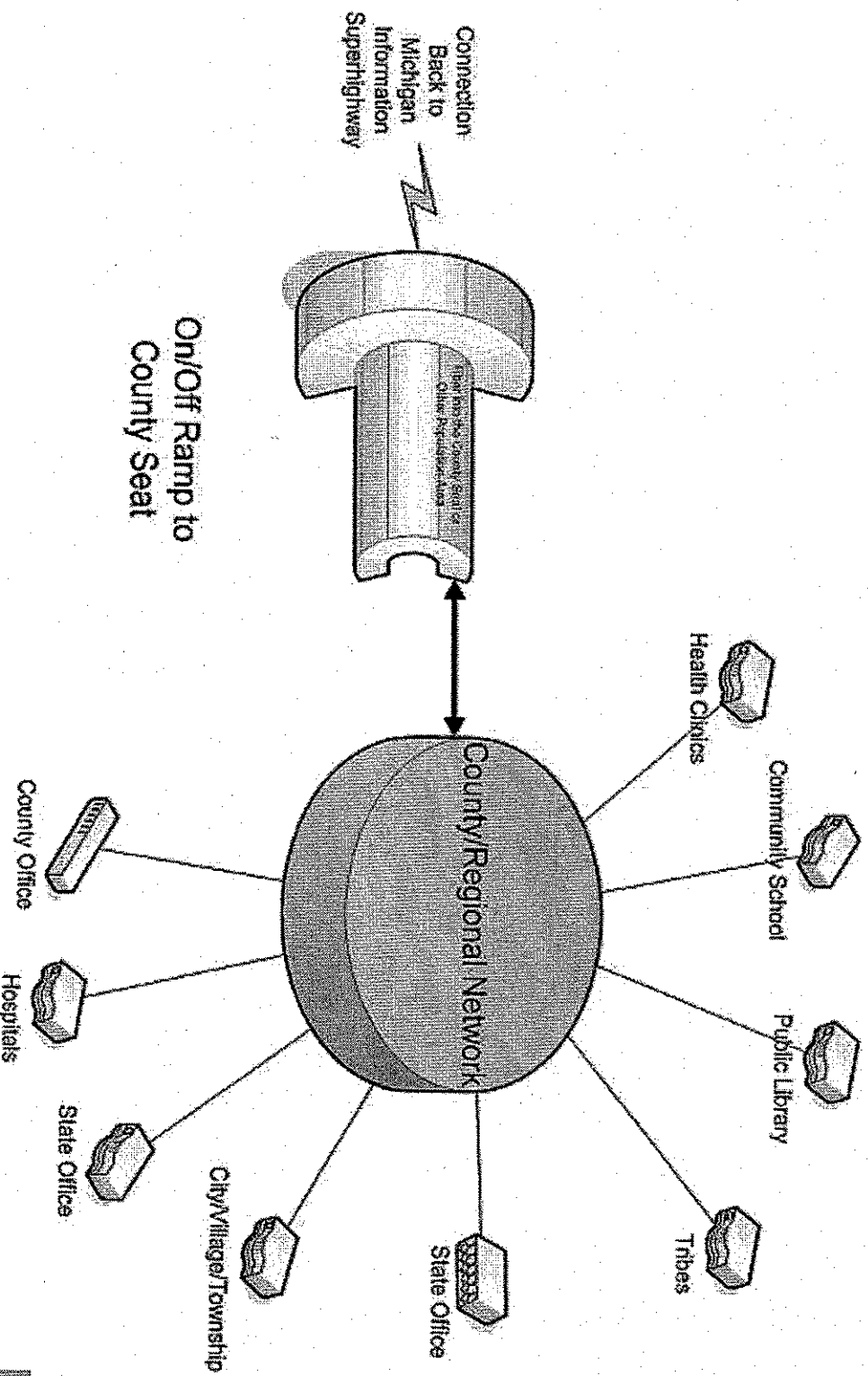


Michigan Information  
Superhighway

On/Off Ramp to  
County Seat

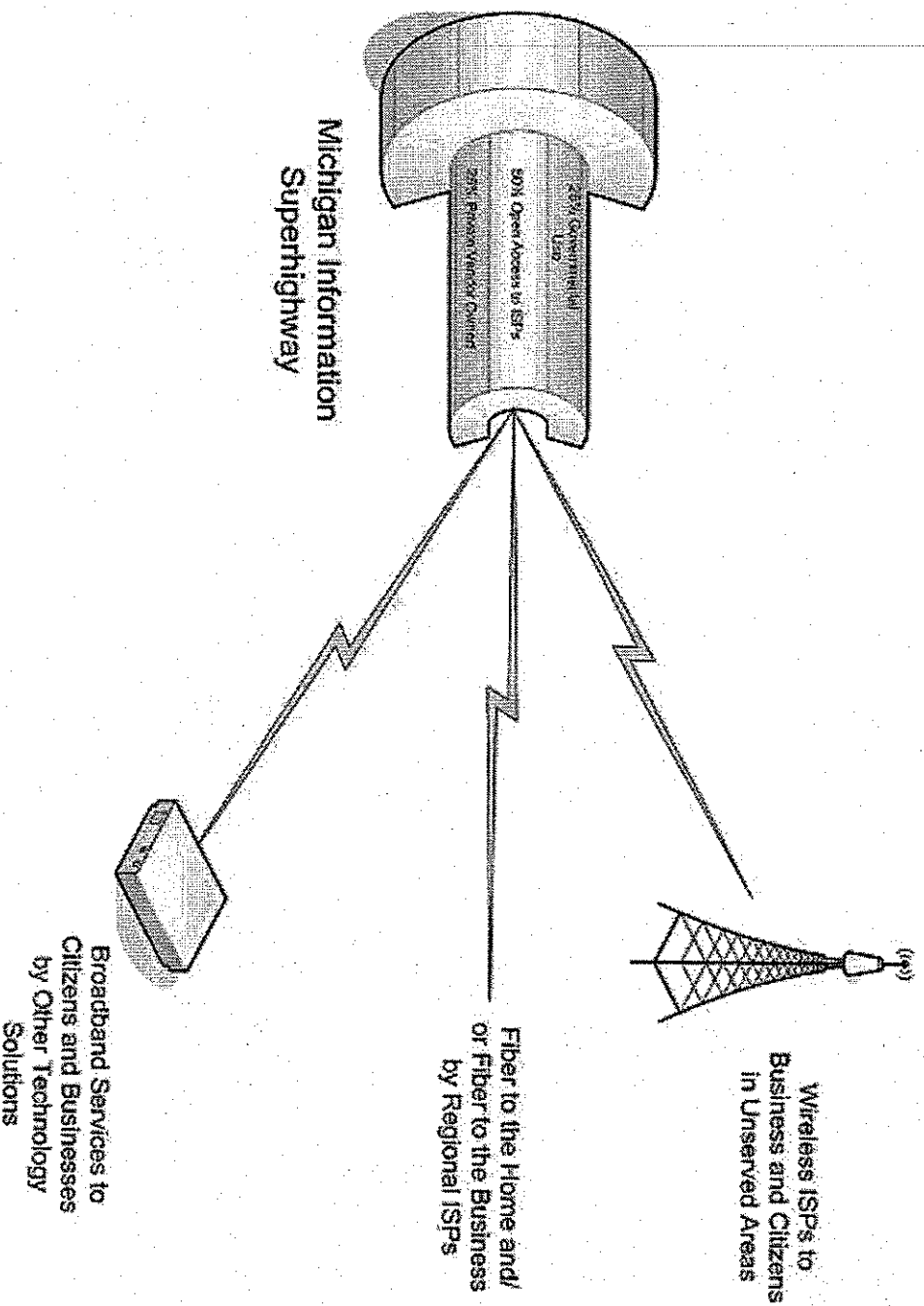
# Michigan's Broadband Framework

## Leg 2: Local Networks



# Michigan's Broadband Framework

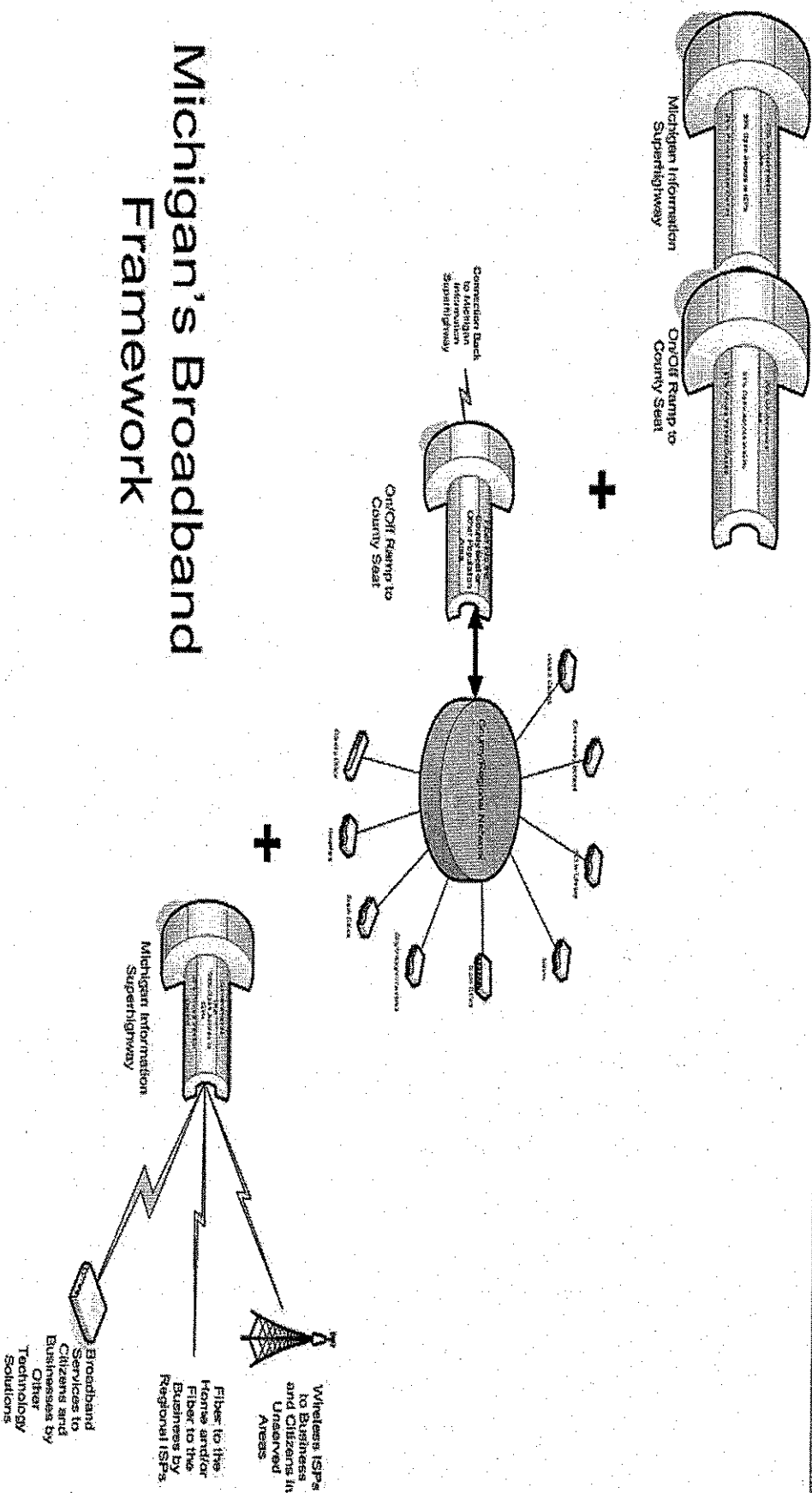
## Leg 3: Un-served & Underserved





# Michigan's Broadband Framework

## Legs At-a-Glance

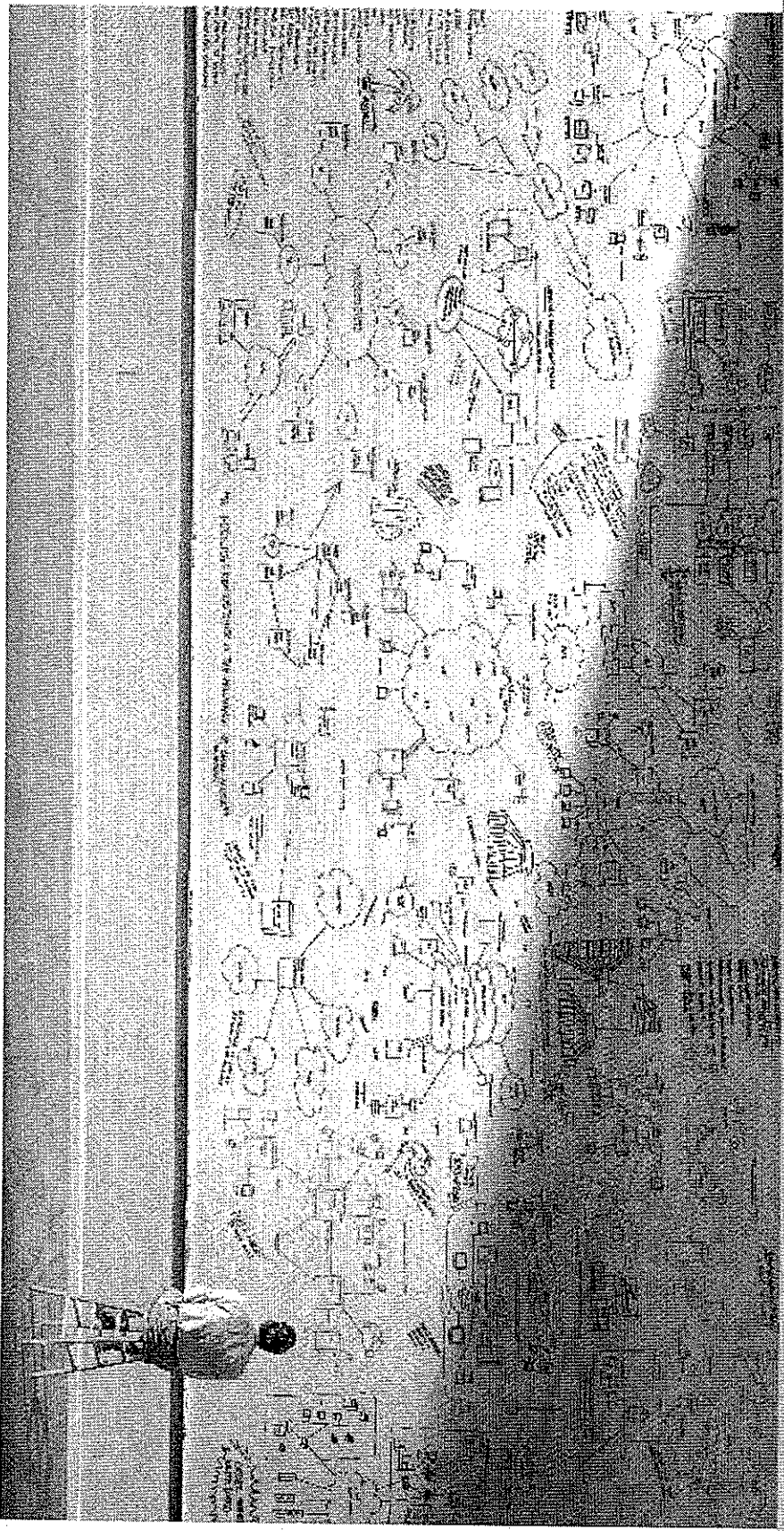


# Benefits Abound

- ◆ Economic development and job creation
- ◆ Better government (State and Local); reduced network and telecom costs and application sharing
- ◆ Educational and administrative application sharing
- ◆ Public access for retraining, small business and employment
- ◆ Greening tools for eCommerce and distance learning
- ◆ Connectivity for unserved/underserved citizens/businesses
- ◆ Health IT, telehealth and telemedicine capabilities
- ◆ Homeland security at border crossings and critical infrastructure across the state's roadways and bridges



# Questions...



**... and Thank You for your Time today!**